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## (54) RADIO COMMUNICATION SYSTEM OF VARIABLE FRAME LENGTH

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To reduce the number of transmission errors which cannot be removed even by a diversity receiving system.

**SOLUTION:** In a radio communication device provided with a diversity receiving function, a receiver 20 estimates the state of a transmission line on the basis of a received level and an code error ratio, generates a frame length control signal and sends the control signal to a transmitter 1. The transmitter 1 changes the frame length in accordance with the frame length control signal and transmits a signal of a changed frame length. When the received level is low or the error ratio is high, the frame length is shortened, and when the received level is high and the error ratio is low, the frame length is extended. Consequently, the influence of the status of the radio transmission line which changes every moment can be reduced and constant communication quality can be maintained.

